

BASIC PROGRAMMING

LABWORK 4: Writing functions in C

Exercise 1:

Write a function in C to find the greatest common divisor (gcd) of two positive integer numbers.

Exercise 2:

Use the gcd function in the previous exercise to find the greatest common divisor of four positive integer numbers.

Exercise 3:

Write two C functions that compute $f(x)=2.5x$ and $g(x,y)=xy$

Exercise 4:

Write a C function to enter a positive integer number and calculate $n!$ using recursive function.

Exercise 5:

Write two C functions to calculate x^n , n and x are input from the keyboard by the normal function and recursive function.

Note: All the functions should be defined in two separated files: *.h and *.c